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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/551,952

10/06/2005

Wolfgang Andorfer

03P05745

3477

24252 7590 03/20/2008

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EXAMINER

FAROKHROOZ, FATIMA N

ART UNIT

PAPER NUMBER

2889

MAIL DATE

DELIVERY MODE

03/20/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/551,952	<b>Applicant(s)</b> ANDORFER ET AL.	
	<b>Examiner</b> FATIMA N. FAROKHROOZ	<b>Art Unit</b> 2889	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 06 October 2005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 October 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>10/06/05</u> .  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Priority*

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4,5, 6, 7, 9, 10-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Bunk et al (US 5811934)

1. Regarding claim 1, Bunk teaches a halogen incandescent lamp having a transparent lamp vessel 5 (Fig.2;col.6,lines 20-26) which is sealed off at one end (pinch seal 6 ;col.6, lines 25-30), and at least one incandescent filament 2' (col.6,lines 38-42) arranged within the lamp vessel , characterized in that a section of the lamp vessel is in the form of a reflector (in this case, section of the lamp vessel 5 which is the lower half of the vessel has a shape which will reflect the light from the filament) and is provided with a light-reflecting coating 8 (col.5,lines 30-32,col.6,lines 27-32;claims 1-3).

2. Regarding claim 4, Bunk teaches a halogen incandescent lamp (Fig.2), characterized in that the lamp vessel is axially symmetrical with respect to a longitudinal axis of the lamp vessel , and the at least one incandescent filament 2' is arranged on the longitudinal axis of the lamp vessel , the section of the lamp vessel which is in the form of a reflector 8 being a ring-shaped section which is connected to the sealed-off end 6 of the lamp vessel and whose ring axis is arranged on the longitudinal axis (also see claim 1).

3. Regarding Claims 5 and 12, Bunk teaches a halogen incandescent lamp (Fig.2; also see Fig.4), characterized in that the section of the lamp vessel which is in the form of a reflector (lower portion of lamp vessel 5) is **parabolic** (lower portion of lamp vessel 5 has a parabolic shape), the rotational axis of the paraboloid being arranged on the longitudinal axis (lamp's vertical axis), and the vertex of the paraboloid facing the sealed-off end of the lamp vessel .

4. Regarding claims 6 and 13, Bunk teaches a halogen incandescent lamp (Fig.2), characterized in that the lamp vessel is, apart from its sealed-off end 6 (col.6,lines 25-35) , in the form of an ellipsoid, whose semimajor axis is arranged on the longitudinal axis of the lamp vessel , and a region of the lamp vessel which essentially corresponds to a half-shell of the ellipsoid is provided with the light- reflecting coating (Abstract;col.4,lines 53-57;col.2,lines 25-33;col.5,lines 25-30;col.3,lines 24-45;Fig.2) .

5. Regarding claim 7, Bunk teaches a halogen incandescent lamp (Fig.2), characterized in that the half-shell of the ellipsoidal extends from the sealed-off end of the lamp vessel to the opposite end of the lamp vessel (also see rejection in claim 6).

6. Regarding claim 9, Bunk teaches a halogen incandescent lamp (Fig.2), characterized in that the sealed-off end of the lamp vessel 6 is in the form of a base.

7. Regarding claim 10, Bunk teaches a halogen incandescent lamp (Fig.2), characterized in that the incandescent filament 2' is completely surrounded by the section of the lamp vessel which is in the form of a reflector 8.

8. Regarding claims 11 and 14, Bunk teaches a halogen incandescent lamp (Fig.2), , characterized in that the halogen incandescent lamp is a low-volt (col.6,lines 20-45) halogen incandescent lamp, the length of the light-emitting coil of the incandescent filament being less than or equal to 4.4 mm, and its external diameter being less than 2.3 mm (Col.6,20-45).

Claims 1,2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Bockley et al (5660462).

9. Regarding claim 1, Bockley teaches a halogen incandescent lamp (Fig.3) having a transparent lamp vessel 50 ( light transmissive lamp envelope 50; col.4,lines 30-38;

Fig.3) which is sealed off at one end 58 (press seal 58; col.4, lines 33-42), and at least one incandescent filament 52 arranged within the lamp vessel (col.4,lines 33-42), characterized in that a section of the lamp vessel is in the form of a reflector and is provided with a light-reflecting coating 72 (col.6,lines 30-36;col.2,lines 48-65).

10. Regarding claim 2, Bockley teaches a halogen incandescent lamp (Fig.3), characterized in that the light-reflecting coating 72 is a metallic coating (col.3,lines 1-5) on the outer surface of the lamp vessel.

11. Regarding claim 4, Bockley teaches a halogen incandescent lamp (Fig.3), characterized in that the lamp vessel is axially symmetrical with respect to a longitudinal axis of the lamp vessel , and the at least one incandescent filament is arranged on the longitudinal axis of the lamp vessel (col.2,lines 65-67;col.3,lines 30-35), the section of the lamp vessel which is in the form of a reflector 72 being a ring-shaped section , which is connected to the sealed-off end 58 of the lamp vessel and whose ring axis is arranged on the longitudinal axis (col.3,lines 303-35) .

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made

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to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bunk et al (5811934) in view of Jones et al (US 6053623)

11. Regarding Claim 3, Bunn teaches the invention set forth above (see rejection in Claim 1 above). Bunn is silent regarding the halogen incandescent lamp, characterized in that the light-reflecting coating is a dichroic coating on the outer surface of the lamp vessel.

In the same field of endeavor of reflectors in lamps, the added Jones reference teaches a lamp reflector wherein the light-reflecting coating is a dichroic coating in order to provide a directed beam of output light (col.2, lines 38-45).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to add the dichroic coating, as disclosed by Jones, in the outer surface of the lamp vessel of Bunn in order to provide a directed beam of output light.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bunk et al (5811934) in view of Tschetter (US 4535269).

13. Regarding Claim 8, Bunk teaches the invention set forth above (see rejection in Claim 1 above).

Bunk is silent regarding the halogen incandescent lamp, characterized in that

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the dimension of the lamp vessel transverse to the longitudinal axis has a maximum value of 30 mm.

In the same field of endeavor, the added Tschetter reference teaches an incandescent lamp wherein the envelope (28 in Fig.1;col.7,lines 45-60) has ellipsoidal shape whose major axes is 17.6 mm (maximum dimension; also minor axes is 14.5 mm ;also see claim 3 of Tschetter) in order to achieve improved efficiency (col.7,lines 58-60)

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to modify the dimensions of the lamp, as disclosed by Tschetter, in the lamp of Bunk in order to achieve improved efficiency.

#### ***Other Prior Art Cited***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

US 6424089 teaches a lamp with reflective coating on the outer surface and an ellipsoidal vessel.

US 3926501, US 6586878, US 4937495 and US 4331901 teach ellipsoidal vessel surface shapes for lamps.

US 20020180356 discloses maximum height of lamp.

#### ***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fatima Farokhrooz whose telephone number is (571)-272-6043. The examiner can normally be reached on Monday- Friday, 9 am - 5 pm. If



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attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minh-Toan Ton can be reached on (571) 272-2303. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Fatima N Farokhrooz/

Examiner, Art Unit 2889

/Karabi Guharay/

Primary Examiner, Art Unit 2889